

Claims

1. A method of controlling a radio cell cluster consisting of a plurality of radio cells of a radio network, wherein the radio network comprises different network components, namely at least one terminal, at least one base station, at least one device RNC for controlling a radio cell cluster, and at least one switching device CN, and wherein the RNC is connected via interfaces to the network components and a plurality of protocol stacks assigned to the different interfaces are provided for processing protocols, wherein the protocol stacks are allocated to different multiprocessor units comprising a plurality of processor groups having a plurality of individual processors for the processing, where the precise allocation to an individual processor takes place as a function of which protocol stack the individual protocols belong to and which layer within the protocol stack the protocols belong to.

15 2. A method according to Claim 1, wherein the protocols which are processed within a protocol stack assigned to the interface to a switching device and which belong to a transport layer, a layer 1 or a layer 2 are allocated to at least one processor module according to the required channel capacity or channel width.

3. A method according to Claim 1, wherein the protocols which are processed within a protocol stack assigned to the interface to another RNC and which belong to a transport layer, a layer 1 or a layer 2 are allocated to at least one processor module according to the required channel capacity or channel width.

25 4. A method according to one of Claims 1, wherein the protocols which are processed within a protocol stack assigned to the interface to a terminal and which belong to a transport layer, a layer 1 or a layer 2 are allocated to at least

one processor module according to the required channel capacity or channel width.

5. A method according to one of Claims 1 to 4, wherein the protocols which
5 are processed within a protocol stack assigned to the interface to a base station
and which belong to a transport layer, a layer 1 or a layer 2 are allocated to at
least one processor module according to the required number of nodes B and the
required overall bandwidth to the nodes B.

10 6. A method according to one of Claims 1 to 5, wherein the protocols which
belong to a layer 3 and are assigned to the interfaces are allocated to at least
one further processor module comprising a plurality of individual processors
according to the required channel capacity, channel bandwidth, the required
number of nodes B and the required overall bandwidth to the nodes B.

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7. A method according to one of Claims 1 to 6, wherein the method is used
in a UMTS- or GSM radio network.

8. A universal device for implementing a transport layer, a layer 1 and a layer
20 2 for an interface of a device RNC for controlling a radio cell cluster consisting of
a plurality of radio cells of a radio network, where the precise function of the
universal device can be implemented by a loadable computer program.

9. A device RNC for controlling a radio cell cluster consisting of a plurality of
25 radio cells of a radio network, wherein for the implementation of a transport
layer, a layer 1 and a layer 2 for an interface of the RNC, the RNC comprises a
plurality of universal devices according to Claim 7.